



FortiAnalyzer BigData 4000D

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- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

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- Nuevas funcionalidades del producto
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登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护



July 26, 2017

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<https://support.fortinet.com>

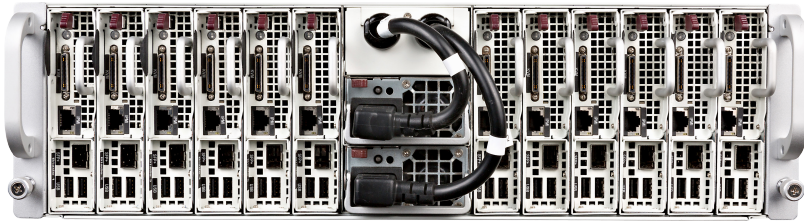
Toll free: 1 866 648 4638

Phone: 1 408 486 7899

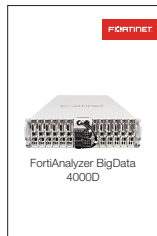
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Box Includes



FortiAnalyzer BigData 4000D



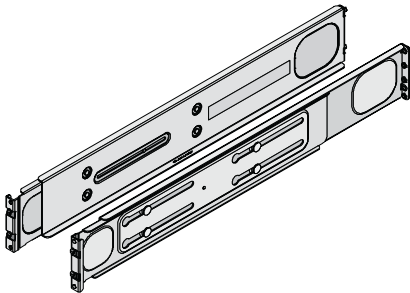
QuickStart Guide



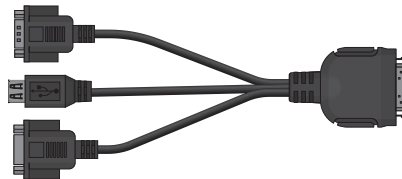
2 Power Cables



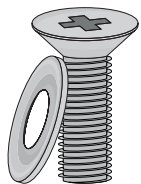
Console Cable



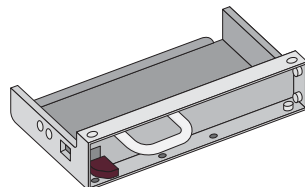
Slide Rail Kit



KVM Cable



8 Bracket Screws



Blank Blade Bracket

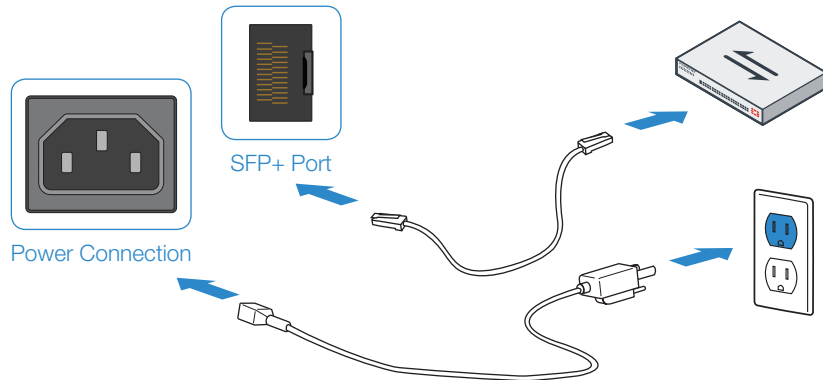
Blades

Each blade has 32GB of RAM and 4TB of storage.

FortiAnalyzer 4000D-BigData:

Blade	Name	Services	Default IP Address
1	CM	Central Management	192.168.1.101
2	CL	Collector	192.168.1.102
3	CS	Collector, MySQL slave server	192.168.1.103
4	DB	MySQL master server	192.168.1.104
5	NM	NameNode (Hadoop), Memcached	192.168.1.105
6	JO	Secondary NameNode, Jobtracker, Oozie	192.168.1.106
7	HJ	Hive, JMS (Java Message Service)	192.168.1.107
8	DN	Datanode, Tasktracker	192.168.1.108
9	DN	Datanode, Tasktracker	192.168.1.109
10	DN	Datanode, Tasktracker	192.168.1.110
11	DN	Datanode, Tasktracker	192.168.1.111
12	DN	Datanode, Tasktracker	192.168.1.112

1 Basic Connections



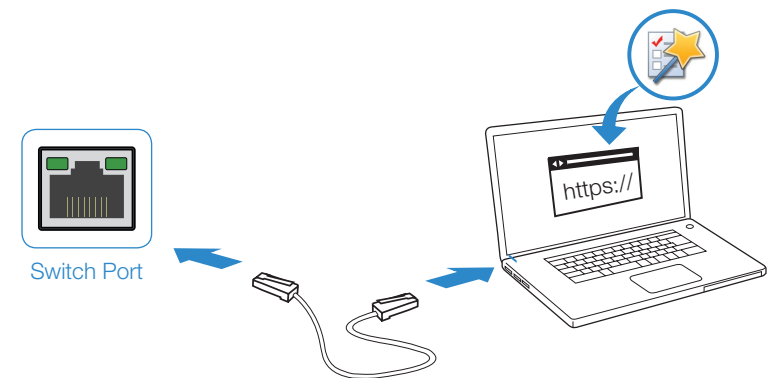
Connect your device to a **power outlet** and connect the **SFP+ ports** on each blade to a **switch**.

The switch places the blades on the **same network** and allows the software **components** to communicate with each other.

2 Setup Options

- A **Web Browser**
Setup Wizard (p.7)
- B **Terminal Emulation**
With console cable (p.8)

A Web Browser



To Connect to the GUI

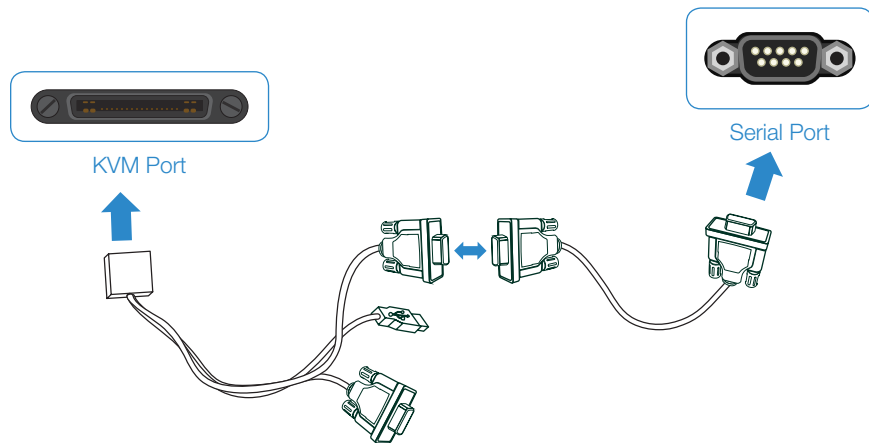
1. Connect an **Ethernet cable** between the **switch** and the management computer.
2. Configure the management computer to be on the same **subnet** as the internal interface of the FortiAnalyzer BigData unit:

IP address: 192.168.1.2

Netmask: 255.255.255.0

3. Browse to <https://192.168.1.101/semanto> in your web browser.
4. Login using username "**admin**" and password "**password123#**".
5. **Configure your device** and save your settings.

B Terminal Emulator



To Connect to the CLI

1. Connect the **KVM port** on **blade 1** to the management computer using the provided **console cable** and the serial connection on the provided **KVM cable**.
2. Start a **terminal emulation program** on the management computer, select the **COM port**, and use the following settings:

Baud Rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow Control: None

3. Press **Enter** on your keyboard to **connect to the CLI**.
4. Login using username **"admin"** and password **"password123#"**. You can now proceed with configuring your device.

Get started by typing **"?"** for a list of available **commands**.

3 Installation

The FortiAnalyzer BigData unit can be mounted in any standard **19 inch rack** unit with the provided mounting hardware.

Please read the "Cautions and Warnings" on page 14 **before** installing your device.

Caution: Electrostatic discharge (**ESD**) can damage your Fortinet equipment.

To avoid **personal injury** or damage to the unit, it is recommended that two or more people install the unit into the rack.

Do not place **heavy objects** on the unit.

Note: Each **power cable** should be connected to a **different power source**. In this way, if one power source fails, the other may still be operational and the unit will not **lose power**.

Caution: If replacing a **fan module**, the fan may continue to spin when the module is **removed** from the chassis. Keep fingers, screwdrivers, and other objects away from **openings** in the fan module's housing.

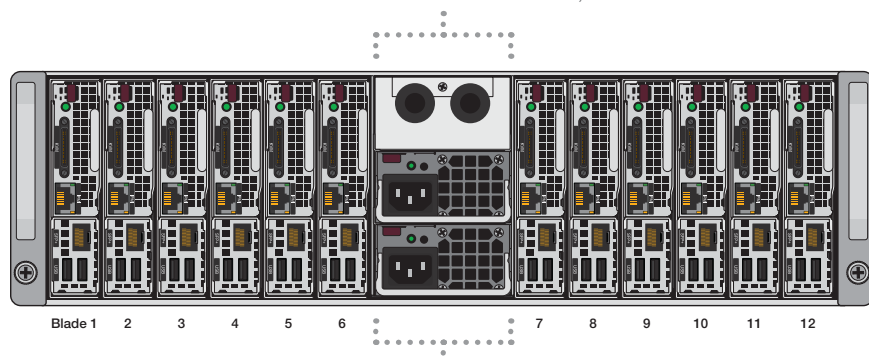
Rack-Mount Installation

1. Using the supplied hardware, attach the **inner slide rails** to each side of the unit, and attach the **outer slide rails** to the rack.
2. Attach the **front handles** to each side of the unit using the bracket screws.
3. Ensure there is enough room around the unit to allow for **sufficient air flow**.
4. Slide the unit into your equipment **rack**.
5. Plug the supplied **cables** into the rear of the unit and into **surge protected** power bars or power supplies.

Power Modules

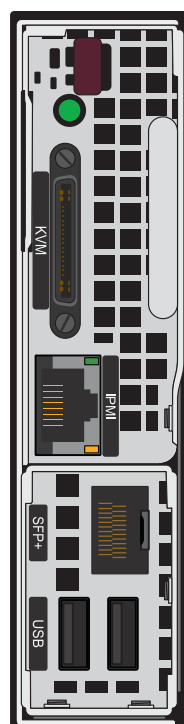
100-240V AC, 50-60Hz

- **Green:** The module is on and operating normally
- **Amber:** The system is off, the module is off, or the module needs service
- **Off:** Power is not connected to the module, or the module needs service



Power Modules

100-240V AC, 50-60Hz



Power

- **Green:** Blade is operating normally
- **Red:** Overheat condition
- **Flashing Red (1Hz):** Fan failure
- **Flashing Red (0.25Hz):** Power failure
- **Off:** Blade is not powered

IPMI Port Link

- **Green:** Connected at 100Mbps
- **Amber:** Connected at 1Gbps

IPMI Port Activity

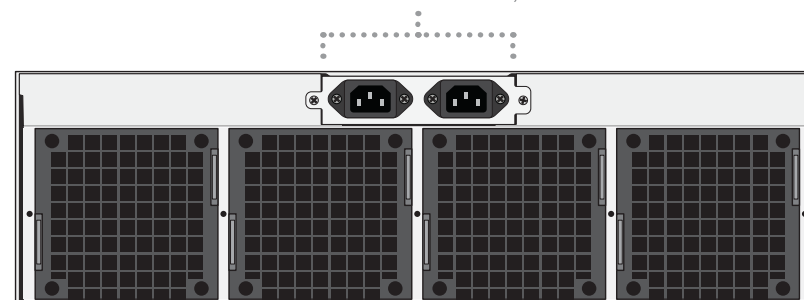
- **Amber:** Transmitting & receiving data

SFP+ Port

- **Green:** Connected at 10Gbps
- **Amber:** Connected at 1Gbps
- **Off:** Not connected

Power

100-240V AC, 50-60Hz



Power Button

Turn the blade on or off.

KVM Port

VGA, USB, and console connection

IPMI Ports (RJ-45)

Do not use

Changing the default password is strongly recommended
See <http://cookbook.fortinet.com/changing-ipmi-password>

SFP Port (SFP+)

10Gbps small form-factor pluggable transceiver port

USB Ports (USB A)

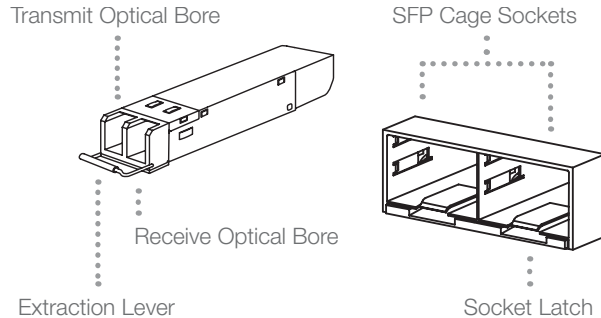
Not in use

SFP Transceivers

Caution: SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

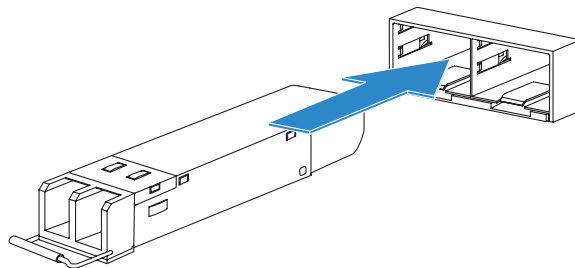
Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

Note: Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



To install the SFP transceivers

1. Ensure that you are properly grounded.
2. Remove the caps from the SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented. When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.
Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.

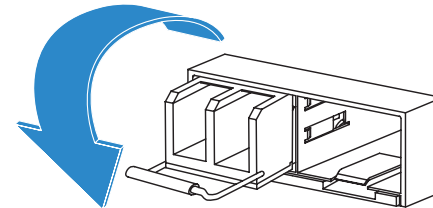


5. Press the transceiver firmly into the cage socket with your thumb.

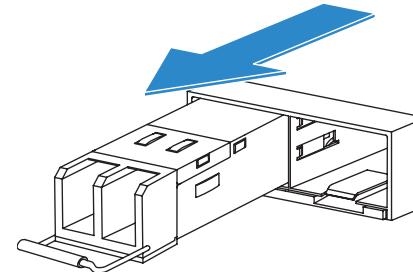
6. Verify that the transceiver is latched correctly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever. If the transceiver cannot be removed, it is installed and latched correctly. If the transceiver can be removed, reinsert it and press harder with your thumb. If necessary, repeat this process until the transceiver is securely latched into the cage socket.

To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver. If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the transceiver and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver into an antistatic bag.

Caution: Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

Note: Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{max}) specified by the manufacturer.
Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T_{max}) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
Surtension – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
Fiabilité de la mise à la terre– Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Moving parts — Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

Caution: Disconnect power supply cords before servicing
Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.
Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Regulatory Compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Product Safety Electrical Appliance & Material (PSE) – Japan

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Voluntary Control Council for Interference (VCCI) – Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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